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EYA3 Protein (AA 1-573) (His tag)



Image



Overview

Quantity:	1 mg
Target:	EYA3
Protein Characteristics:	AA 1-573
Origin:	Human
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This EYA3 protein is labelled with His tag.
Application:	ELISA, Western Blotting (WB), Crystallization (Crys), SDS-PAGE (SDS)

Product Details

Sequence:

MEEEQDLPEQ PVKKAKMQES GEQTISQVSN PDVSDQKPET SSLASNLPMS EEIMTCTDYI PRSSNDYTSQ MYSAKPYAHI LSVPVSETAY PGQTQYQTLQ QTQPYAVYPQ ATQTYGLPPF GALWPGMKPE SGLIQTPSPS QHSVLTCTTG LTTSQPSPAH YSYPIQASST NASLISTSST IANIPAAAVA SISNQDYPTY TILGQNQYQA CYPSSSFGVT GQTNSDAEST TLAATTYQSE KPSVMAPAPA AQRLSSGDPS TSPSLSQTTP SKDTDDQSRK NMTSKNRGKR KADATSSQDS ELERVFLWDL DETIIIFHSL LTGSYAQKYG KDPTVVIGSG LTMEEMIFEV ADTHLFFNDL EECDQVHVED VASDDNGQDL SNYSFSTDGF SGSGGSGSHG SSVGVQGGVD WMRKLAFRYR KVREIYDKHK SNVGGLLSPQ RKEALQRLRA EIEVLTDSWL GTALKSLLLI QSRKNCVNVL ITTTQLVPAL AKVLLYGLGE IFPIENIYSA TKIGKESCFE RIVSRFGKKV TYVVIGDGRD EEIAAKQHNM PFWRITNHGD LVSLHQALEL DFL

Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a special request, please contact us.

Characteristics:

- Made in Germany from design to production by highly experienced protein experts.
- Human EYA3 Protein (raised in Insect Cells) purified by multi-step, protein-specific process to ensure crystallization grade.
- State-of-the-art algorithm used for plasmid design (Gene synthesis).

This protein is a made to order protein and will be made for the first time for your order. Our experts in the lab will ensure that you receive a correctly folded protein.

The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.

In the unlikely event that the protein cannot be expressed or purified we do not charge anything (other companies might charge you for any performed steps in the expression process for custom-made proteins, e.g. fees might apply for the expression plasmid, the first expression experiments or purification optimization).

When you order this made-to-order protein you will only pay upon receival of the correctly folded protein. With no financial risk on your end you can rest assured that our experienced protein experts will do everything to make sure that you receive the protein you ordered.

The protein's absorbance will be measured in several dilutions and is measured against its specific reference buffer.

The concentration of our recombinant proteins is measured using the absorbance at 280nm.

The concentration of the protein is calculated using its specific absorption coefficient. We use the Expasy's protparam tool to determine the absorption coefficient of each protein.

Purification:

Two step purification of proteins expressed in baculovirus infected SF9 insect cells:

- 1. In a first purification step, the protein is purified from the cleared cell lysate using three different His-tag capture materials: high yield, EDTA resistant, or DTT resistant. Eluate fractions are analyzed by SDS-PAGE.
- 2. Protein containing fractions of the best purification are subjected to second purification step through size exclusion chromatography. Eluate fractions are analyzed by SDS-PAGE and Western blot.

Purity:

>95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.

Sterility:

0.22 µm filtered

Endotoxin Level:

Protein is endotoxin free.

Grade:

Crystallography grade

Target Details

Target:	EYA3
Alternative Name:	EYA3 (EYA3 Products)
Alternative Name: Background:	Tyrosine phosphatase that specifically dephosphorylates 'Tyr-142' of histone H2AX (H2AXY142ph). 'Tyr-142' phosphorylation of histone H2AX plays a central role in DNA repair and acts as a mark that distinguishes between apoptotic and repair responses to genotoxic stress. Promotes efficient DNA repair by dephosphorylating H2AX, promoting the recruitment of DNA repair complexes containing MDC1 (PubMed:19234442, PubMed:19351884). Its function as histone phosphatase probably explains its role in transcription regulation during organogenesis. Coactivates SIX1, and seems to coactivate SIX2, SIX4 and SIX5. The repression of precursor cell proliferation in myoblasts by SIX1 is switched to activation through recruitment of EYA3 to the SIX1-DACH1 complex and seems to be dependent on EYA3 phosphatase activity (By similarity). May be involved in development of the eye. {ECO:0000250 UniProtKB:P97480, ECO:0000269 PubMed:19234442,
Mala autan Wainkh	ECO:0000269 PubMed:19351884}.
Molecular Weight:	63.6 kDa Including tag.
UniProt:	Q99504
Pathways: Application Details	Positive Regulation of Response to DNA Damage Stimulus
Application Notes:	In addition to the applications listed above we expect the protein to work for functional studies as well. As the protein has not been tested for functional studies yet we cannot offer a gurantee though.
Comment:	In cases in which it is highly likely that the recombinant protein with the default tag will be insoluble our protein lab may suggest a higher molecular weight tag (e.g. GST-tag) instead to increase solubility. We will discuss all possible options with you in detail to assure that you receive your protein of interest.
Restrictions:	For Research Use only
Handling	
Format:	Liquid
Buffer:	100 mM NaCL, 20 mM Hepes, 10% glycerol. pH value is at the discretion of the manufacturer.
Handling Advice:	Avoid repeated freeze-thaw cycles.

Handling

Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	Unlimited (if stored properly)

Images

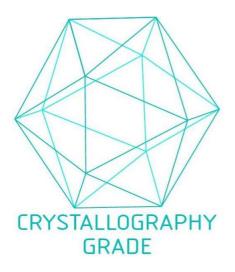


Image 1. "Crystallography Grade" protein due to multi-step, protein-specific purification process